AMENDMENTS TO THE CLAIMS

Please amend claims 1, 16, 35, 36, 39, and 43, as follows. A complete listing of pending claims is provided below.

1. (Currently Amended) A system for delivering power to a therapeutic device, comprising:

a generator including a power regulation circuit for producing an output power at a generator output;

a patient cable having a proximal end configured for coupling to the generator output, and a distal end configured for coupling to a therapeutic device; and

a feedback apparatus ~~coupled~~ connected to the distal end of the patient cable, the feedback apparatus comprising a current sensor, and configured to generate a feedback signal based on a current sensed by the current sensor;

wherein the power regulation circuit is configured to compensate for a power change along the patient cable by controlling the output power based at least in part on the feedback signal.

2-10. (Canceled)

11. (Previously Presented) The system of claim 1, further comprising a feedback path coupled to the feedback apparatus for transmitting the feedback signal to the generator.

12. (Previously Presented) The system of claim 11, wherein the feedback path comprises at least one wire connected to the power generator.

13. (Previously Presented) The system of claim 11, wherein the feedback path comprises a wireless transmitter.

14. (Previously Presented) The system of claim 1, wherein the feedback signal is analog.

15. (Previously Presented) The system of claim 1, wherein the feedback signal is digital.

16. (Currently Amended) A method for delivering power to a therapeutic device, comprising:

generating an output power;

delivering the output power over a patient cable to a therapeutic device;

sensing a current at a distal end of the patient cable or at the therapeutic device;

generating a feedback signal based on the sensed current; and

compensating for a power loss along the patient cable by modifying the generated output power based at least in part on the feedback signal ~~such that a power change along the patient cable is compensated~~.

17-18. (Canceled)

19. (Previously Presented) The method of claim 16, wherein the sensing step comprises sensing a current at the distal end of the patient cable.

20. (Previously Presented) The method of claim 16, wherein the sensing step comprises sensing a current at the therapeutic device.

21. (Previously Presented) The method of claim 16, wherein the therapeutic device delivers radio frequency (RF) energy.

22. (Previously Presented) The method of claim 16, wherein the therapeutic device delivers microwave energy.

23. (Previously Presented) The method of claim 16, wherein the therapeutic device delivers ultrasound energy.

24. (Previously Presented) The method of claim 16, further comprising transmitting the feedback signal to a power generator that generates the output power.

25. (Previously Presented) The method of claim 24, wherein the transmitting step comprises using at least one wire to transmit the feedback signal.

26. (Previously Presented) The method of claim 24, wherein the transmitting step comprises using a wireless transmitter to transmit the feedback signal.

27. (Previously Presented) The method of claim 16, wherein the feedback signal is analog.

28. (Previously Presented) The method of claim 16, wherein the feedback signal is digital.

29. (Previously Presented) The method of claim 16, further comprising sensing a voltage at a distal end of the patient cable or at the therapeutic device.

30. (Previously Presented) The method of claim 29, wherein the feedback signal is generated based on the sensed current and the sensed voltage.

31. (Previously Presented) The system of claim 1, wherein the feedback apparatus further comprises a voltage sensor.

32. (Previously Presented) The system of claim 31, wherein the feedback apparatus is configured to generate a feedback signal based on a current sensed by the current sensor and a voltage sensed by the voltage sensor.

33. (Previously Presented) The system of claim 1, wherein the patient cable comprises an extension cord.

34. (Previously Presented) The system of claim 1, wherein the patient cable comprises a plurality of extension cords.

35. (Currently Amended) A system for delivering power to a therapeutic device, comprising:

a generator including a power regulation circuit for producing an output power at a generator output;

a patient cable having a proximal end configured for coupling to the generator output, and a distal end configured for coupling to a therapeutic device; and

a feedback apparatus ~~coupled~~ connected to the distal end of the patient cable, the feedback apparatus comprising a voltage sensor, and configured to generate a feedback signal based on a voltage sensed by the voltage sensor;

wherein the power regulation circuit is configured to compensate for a power change along the patient cable by controlling the output power based at least in part on the feedback signal.

36. (Currently Amended) A method for delivering power to a therapeutic device, comprising:

generating an output power;

delivering the output power over a patient cable to a therapeutic device;

sensing a voltage at a distal end of the patient cable or at the therapeutic device;

generating a feedback signal based on the sensed voltage; and

compensating for a power loss along the patient cable by modifying the generated output power based at least in part on the feedback signal ~~such that a power change along the patient cable is compensated~~.

37. (Previously Presented) The method of claim 36, wherein the sensing step comprises sensing a voltage at the distal end of the patient cable.

38. (Previously Presented) The method of claim 36, wherein the sensing step comprises sensing a voltage at the therapeutic device.

39. (Currently Amended) A therapeutic system, comprising:

a therapeutic device;

a generator including a power regulation circuit for producing an output power at a generator output;

a patient cable having a proximal end coupled to the generator output, and a distal end coupled to the therapeutic device; and

a feedback apparatus ~~coupled~~ connected to the therapeutic device, the feedback apparatus comprising a current sensor, and is configured to generate a feedback signal based on a current sensed by the current sensor;

wherein the power regulation circuit is configured to compensate for a power ~~change~~ loss along the patient cable by controlling the output power based at least in part on the feedback signal.

40. (Previously Presented) The system of claim 39, wherein the therapeutic device delivers radio frequency (RF) energy.

41. (Previously Presented) The system of claim 39, wherein the therapeutic device delivers microwave energy.

42. (Previously Presented) The system of claim 39, wherein the therapeutic device delivers ultrasound energy.

43. (Currently Amended) A therapeutic system, comprising:

a therapeutic device;

a generator including a power regulation circuit for producing an output power at a generator output;

a patient cable having a proximal end coupled to the generator output, and a distal end coupled to the therapeutic device; and

a feedback apparatus ~~coupled~~ connected to the therapeutic device, the feedback apparatus comprising a voltage sensor, and is configured to generate a feedback signal based on a voltage sensed by the voltage sensor;

wherein the power regulation circuit is configured to compensate for a power ~~change~~ loss along the patient cable by controlling the output power based at least in part on the feedback signal.

44. (Previously Presented) The system of claim 43, wherein the therapeutic device delivers radio frequency (RF) energy.

45. (Previously Presented) The system of claim 43, wherein the therapeutic device delivers microwave energy.

46. (Previously Presented) The system of claim 43, wherein the therapeutic device delivers ultrasound energy.